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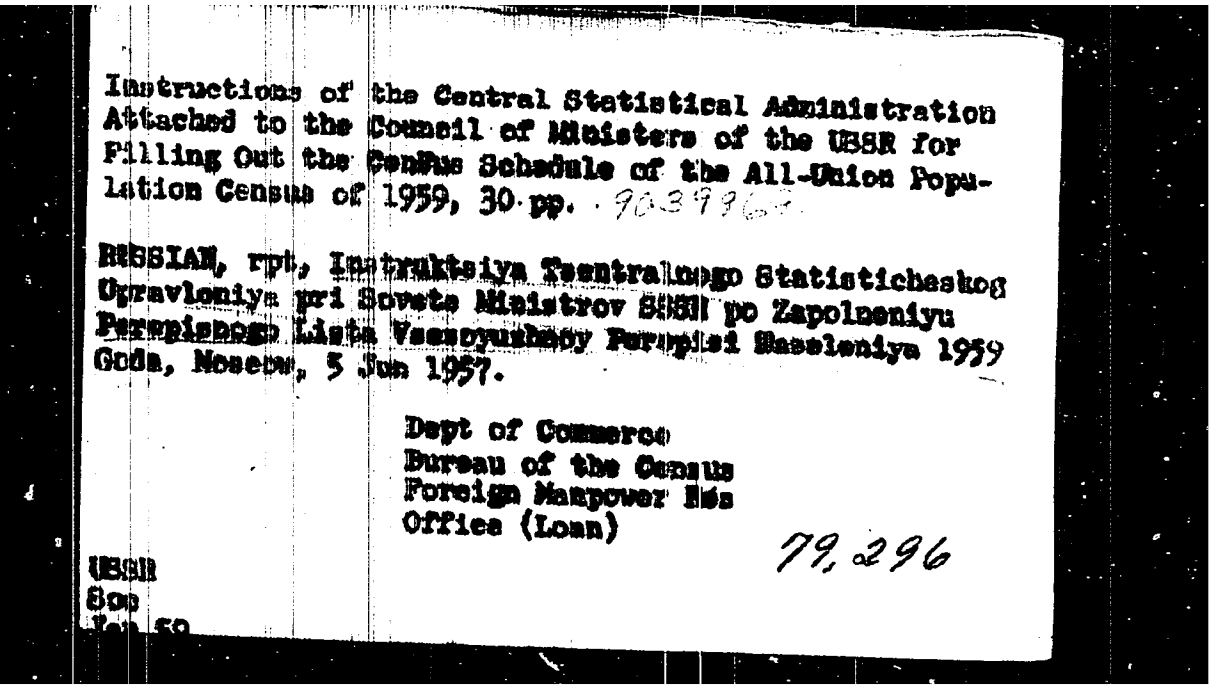

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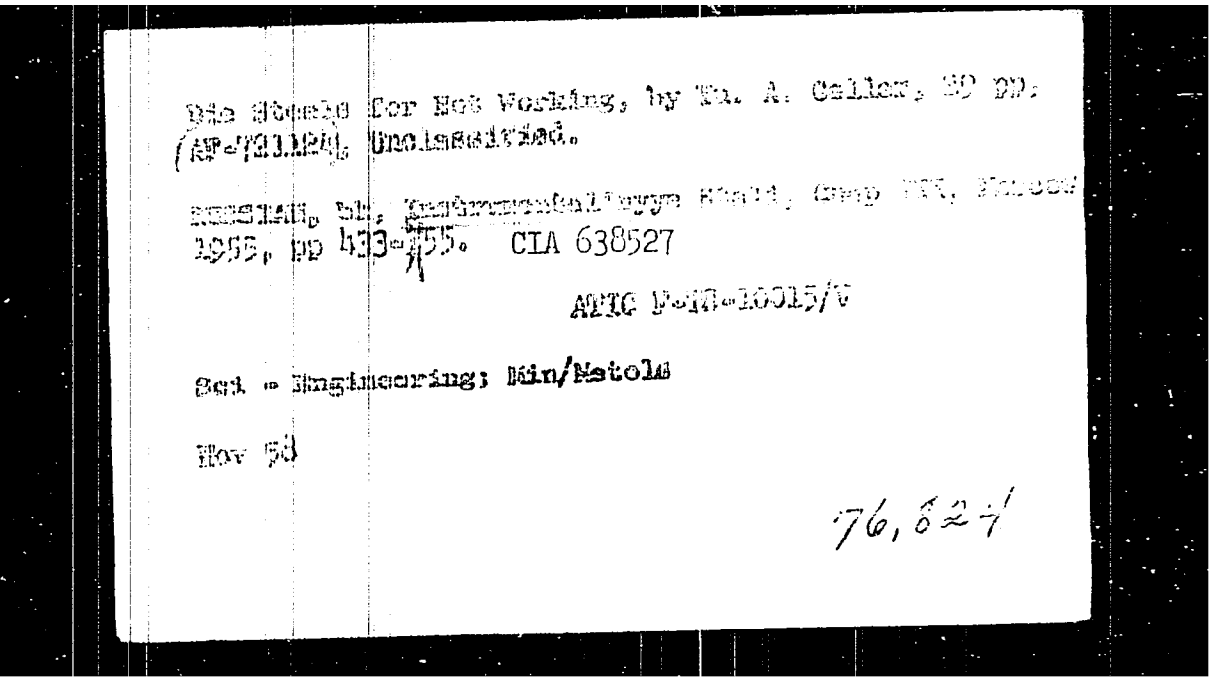

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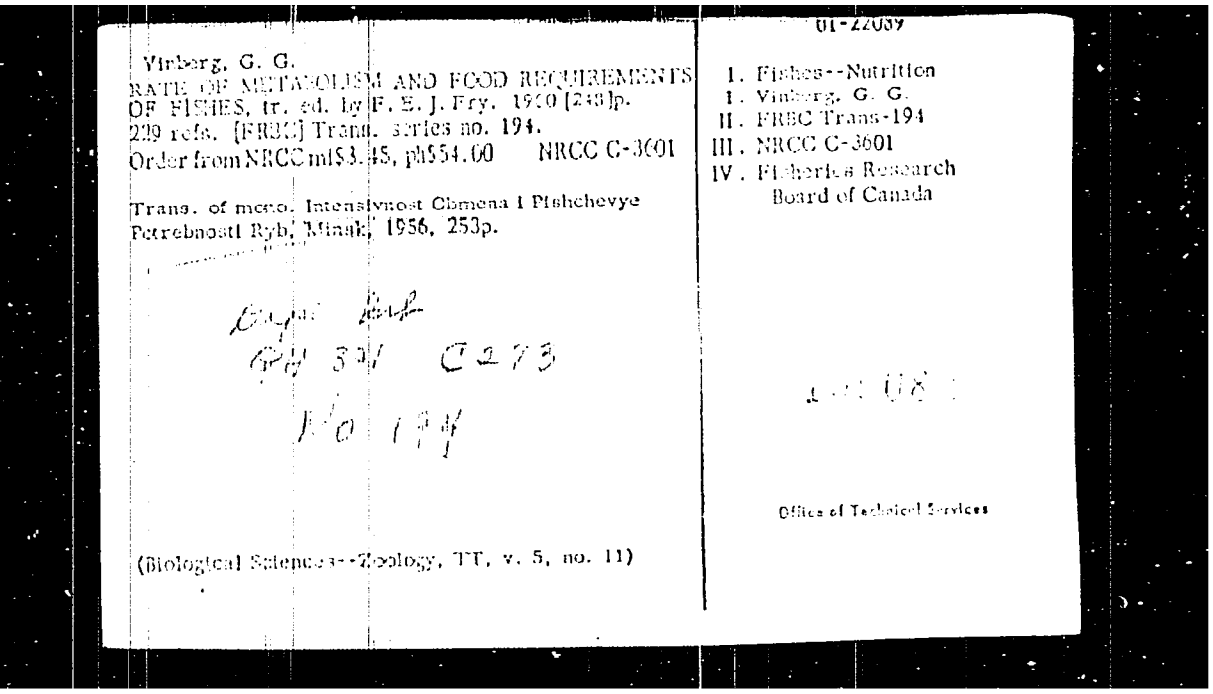

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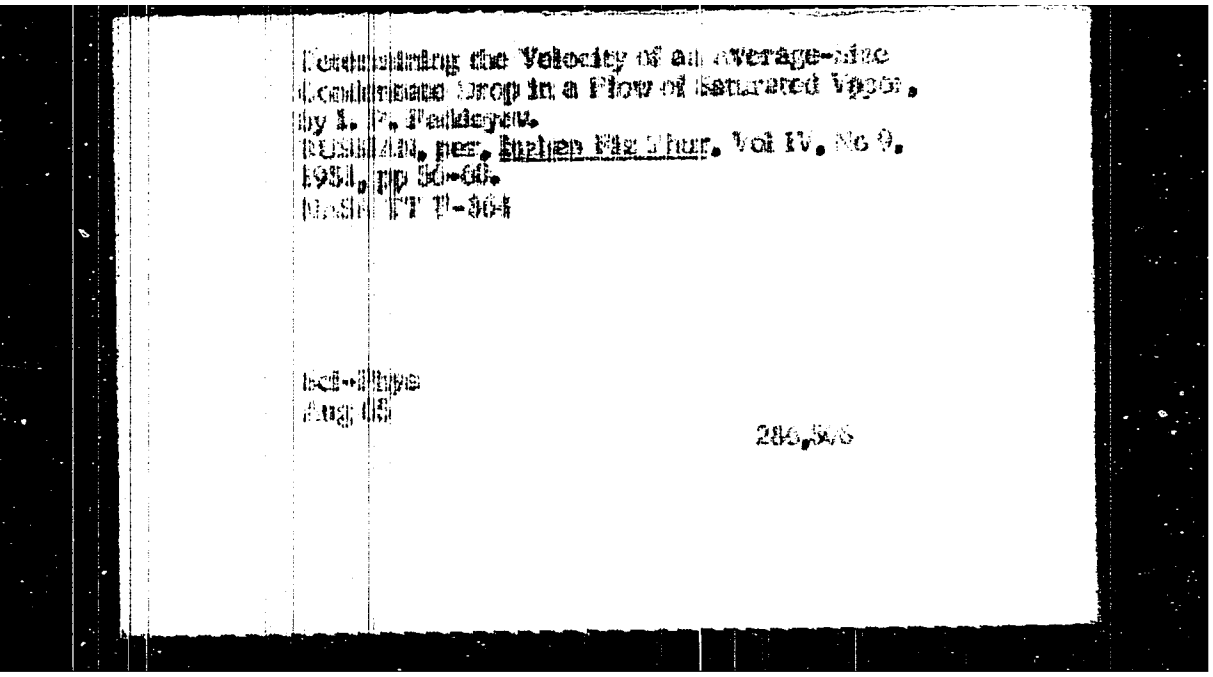

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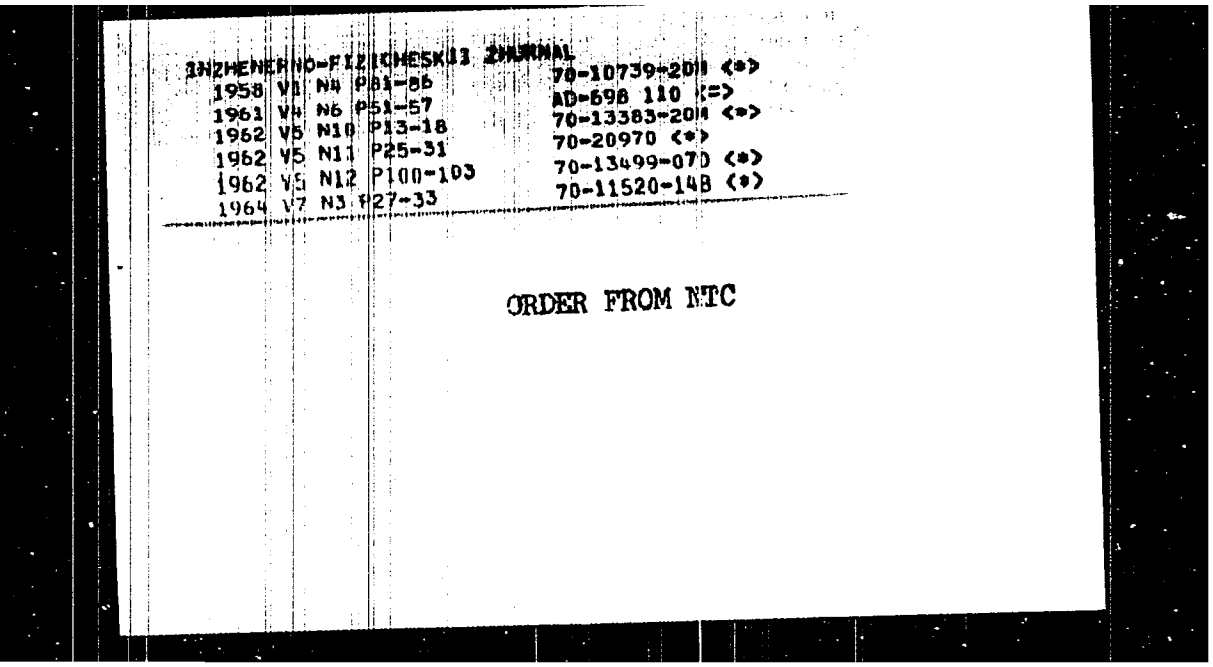

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Sci-
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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

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Certain Theoretical Prerequisites on the Construction of Metal-Like Refractories, by G. V. Samsonov, V. S. Neshpor, 12 pp.

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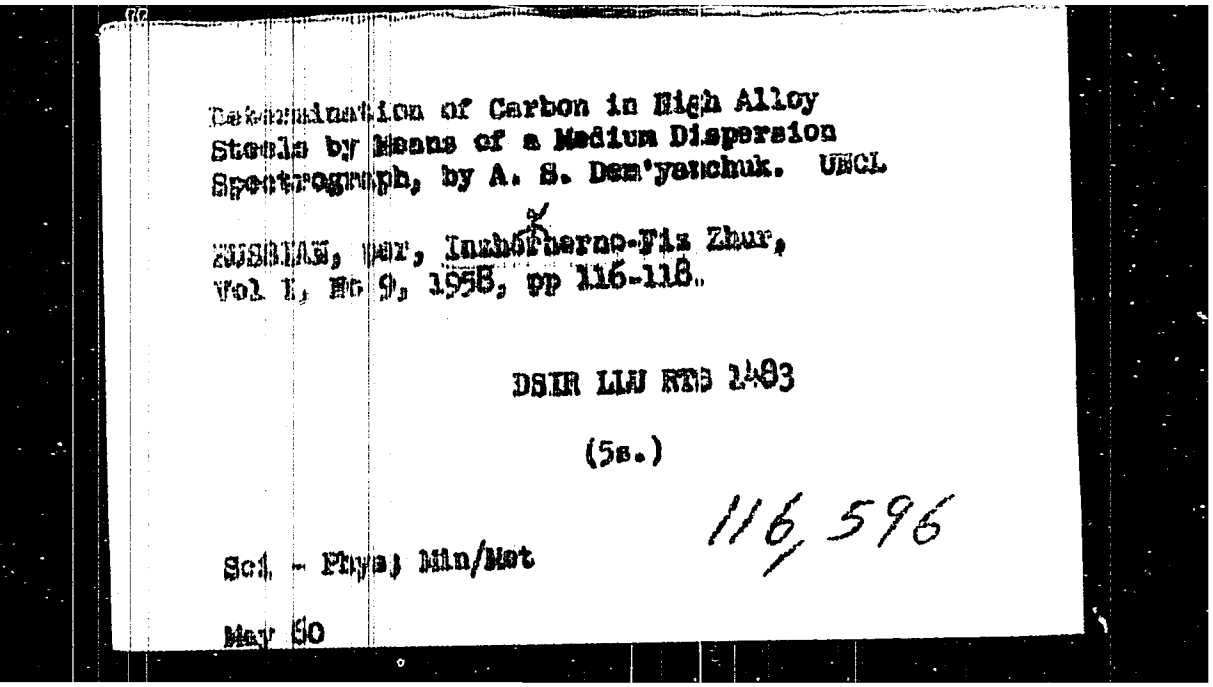

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Sci - Phys; Min/Met

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Determination of the Thermal Coefficients of Friable and Solid Substances by the Method of Plane Thermal Waves, by E. M. Kravchuk, 13 pp.

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Quantitative Spectral Determination of Small Quantities of Boron, Arsenic, Tellurium and Phosphorus in Steel, by A. S. Den'yanchuk.
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(DC-3696)

Mikhail Aleksandrovich Yel'yashevich, 3 pp

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JPRS 3846

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Petrash, G. G. and Rautyan, S. G.
OPTIMUM CONDITIONS FOR MEASURING OPTICAL DENSITY WITH REDUCTION TO AN IDEAL INSTRUMENT (Optimal'nyye Usloviya Izmereniya Opticheskoy Plotnosti pri Reduktsii k Ideal'nomu Priboru) tr. by G. Belkov. 1960, 19p. 10 refs. Technical trans. 903.
Order from NRCC $1.00 NRCC C-3437

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151482

(Physics--Spectroscopy, TT, v. 5, no. 8)

61-12623

1. Infrared spectrophotometers--Applications
I. Petrash, G. G.
II. Rautyan, S. G.
III. NRCC TT-903
IV. NRCC C-3437
V. National Research Council of Canada

CT/

Office of Technical Services

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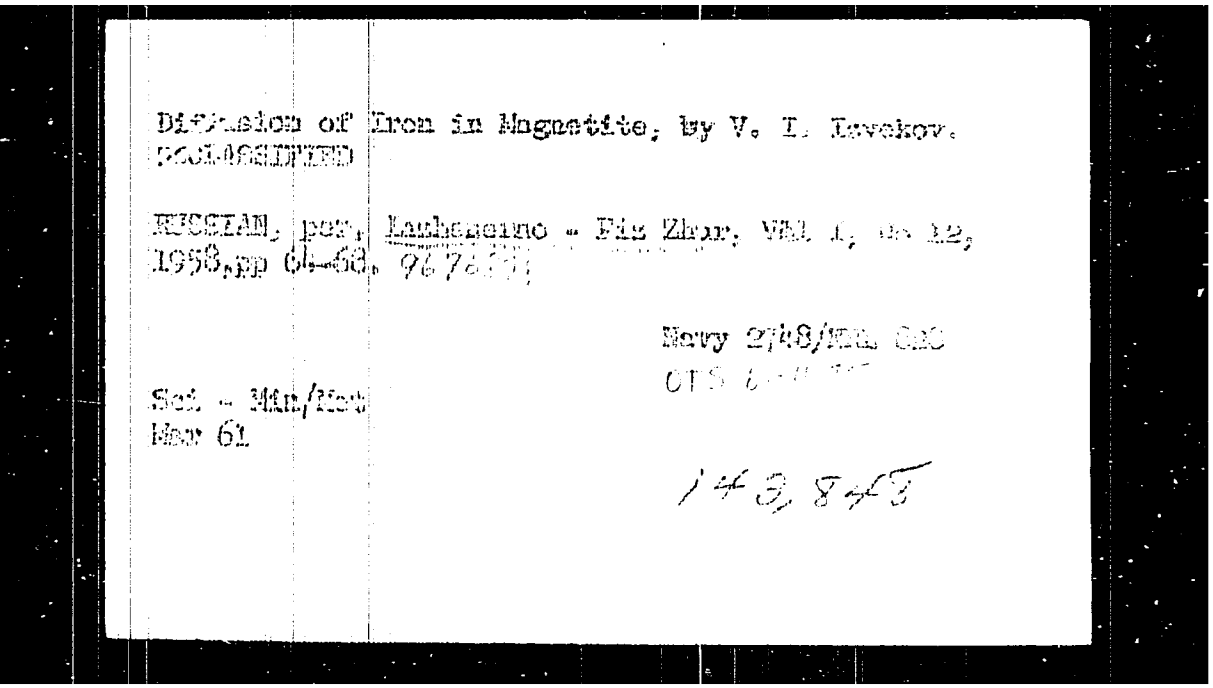

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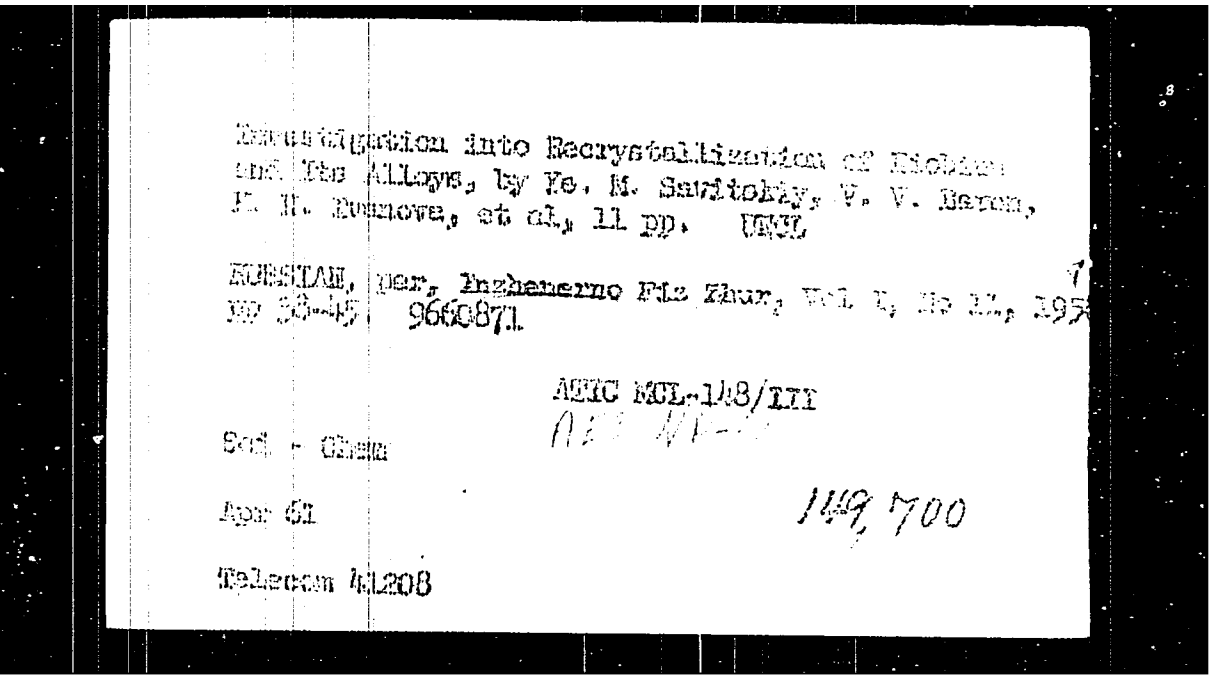

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A Form of the Equation of State of a Real Gas, by P. M. Kessel'man
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NLL Ref: 8732 (1282)

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High-Pressure Pump Without a Stuffing Box,
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The Measurement of Particle Velocity in Pneumatic Transport Pipelines, by E. A. Zakharov. UHCL

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(DC-6819)

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JPRS 14040

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Certain Conformal Laws Relating to the Turbulent Hydrodynamlayers at a Smooth Flat Plate, by K. V. Grishanin, RUSSIAN, per, Inzhenerno-Fizicheskiy Zh., Vol II, No 5, 1959, pp 19-28.
NLL RTS 3179
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Dorfman, A. Sh., Pol'skii, N. I., and Saikovskii, M. I.
A CHARACTERISTIC OF LOCAL EXPANSION OF DIFFUSOR CHANNELS (Ob Odnoi Kharakteristike Lokal'nogo Rasshireniya Diffuzornykh Kanalov). [1962] [19]p. (foreign text included) 2 refs.
Order from OTS or SLA $1.60 62-20260

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1959, v. 2, no. 4, p. 8-14.

DESCRIPTORS: *Diffusers, Exhaust diffusers, *Turbine parts, Gas turbines, Thermal expansion, Design, Geometry.

The paper introduces a certain geometric characteristic of local expansion in curvilinear diffusors, as applied to the study of radial ring diffusors of the exhaust pipes of turbines. (Author)
(Machinery--Engines, TT, v. 9, no. 9)

62-20260

I. Dorfman, A. Sh.
II. Pol'skii, N. I.
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The Mechanism of Operation of Gas Diffusion Electrodes (Applied to a Hydrogen-Oxygen Fuel HK Elements), by I. G. Gurevich.

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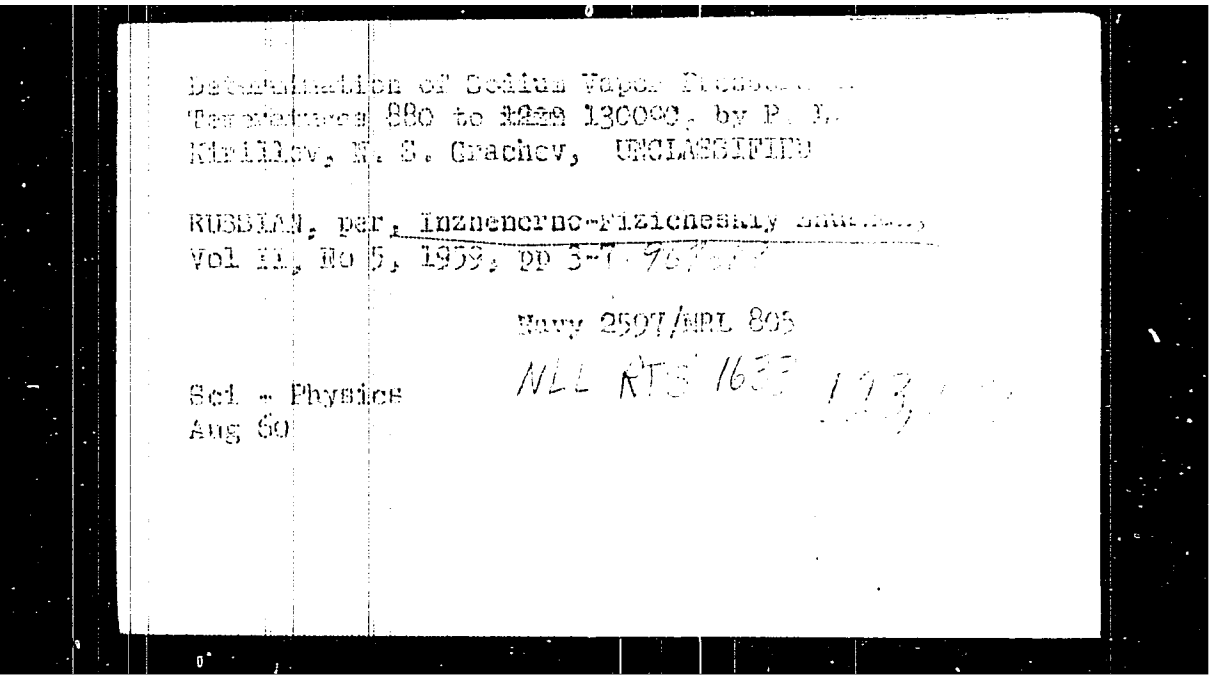

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Crystalline Fracture as a Criterion of the Brittleness of Steel, by P. M. Dontsov.
RUSSIAN, per, Inzhenerno-Fizicheski Zhurnal,
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(TDB 1344)
ACSIL ADM/63/347

314,358

Sci - Mechanical, Industrial,

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Liquid-Vapor Equilibrium in the Ethyl
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NYL RRS 2055

Sci - Phys

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THE PROBLEM OF DIFFUSION FLAME VIBRATION (K Voprosu o Pul'satsiyakh Diffuzionnykh Plamen). [1960] 8p. 9 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-15091

Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959, v. 2, no. 8, p. 15-22.

Observations are described of the behavior of diffusion flames of liquids (solar oil, kerosene, benzine) burning in burners. The causes of the vibration of these flames, and a number of regularities observed in practice are explained. The results agree with Ya. B. Zel'dovich's theory of transition from laminar to turbulent behavior in a freely ascending jet which rises from the flame. (Author)

(Chemistry--Physical, TT, v. 5, no. 3)

61-15091

I. Flames--Diffusion
I. Blinov, V. I.
II. Research Servicing Associates, Washington, D. C.
III. Bureau of Mines, Washington, D. C.

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Kovner, M. A.
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Order from OTS or SLA $1.10 61-27988

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1959, v. 2, no. 8, p. 108-111.

DESCRIPTORS: *Benzenes, *Toluenes, Thermodynamics, Spectrographic data, *Deuterated compounds.

(Physics--Thermodynamics, TT, v. 6, no. 10)

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Effect of Imprecisions in the Making of a Symmetrical Gyroscope on its Motion, by N. I. Kuznetsov, M. P. Khaimanovich, 6 pp.

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AEC Tr-4048

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Kharakhorin, F. F.
LIQUID-VAPOR EQUILIBRIUM IN THE SYSTEMS NITROGEN-HELIUM AND HELIUM-METHANE. [1961] 8p. 12 refs.
Order from OTS or SLA $1.10 61-10727

Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959, [v. 2] no. 9, p. 24-29.

DESCRIPTORS: *Nitrogen, *Helium, *Methane, Thermodynamics, *Liquids, *Gases, Solubility.

The volatility of helium in nitrogen-helium and helium-methane systems in the temperature interval from 68 to 150.3 K and at pressures of from 4 to 215 atm is calculated from data obtained in an experimental investigation of liquid-vapour equilibrium in these mixtures. It is shown that at pressures between 40 to 45 and 215 atm the solubility of helium in liquid nitrogen and methane can be calculated with sufficient accuracy from the Krichevsky--Kazarnovsky equation. The
(Chemistry--Physical, TT, v. 6, no. 5) (over)

61-10727

I. Kharakhorin, F. F.

180424

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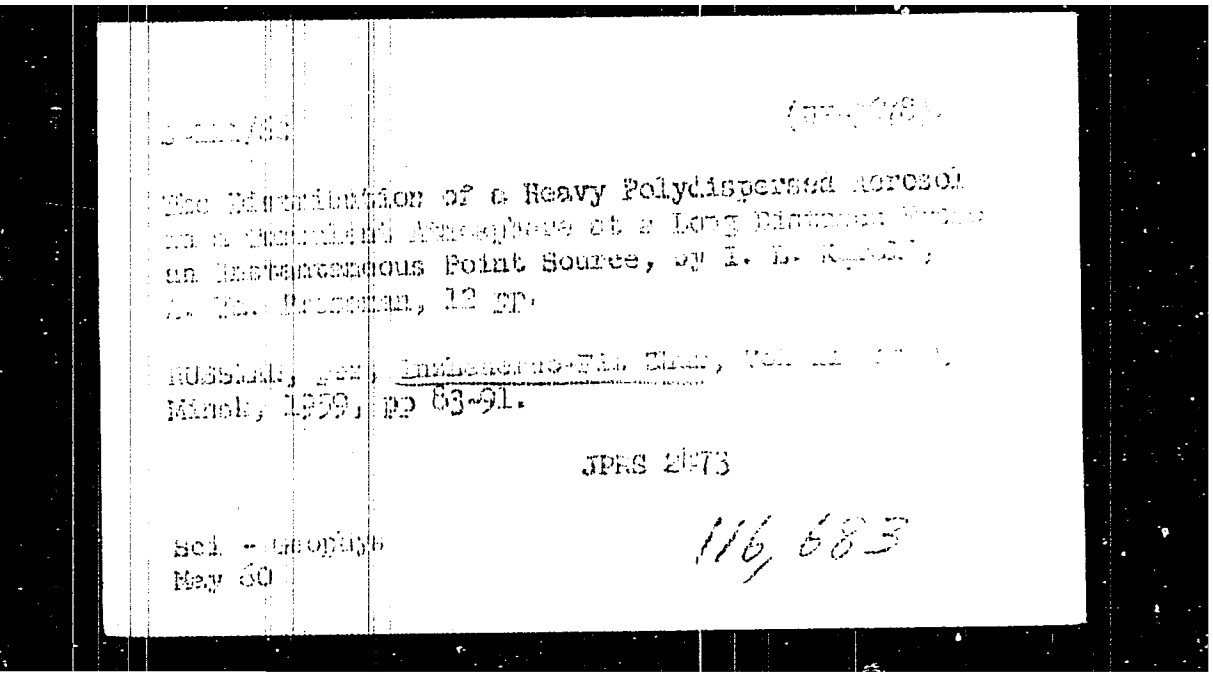

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The Distribution of a Heavy Polydispersed Aerosol in a Unlimited Atmosphere at a Long Distance from an Instantaneous Point Source, by I. E. Kuz[illegible], A. M. Voloshchuk, 12 pp.

Russian, [illegible] Inzhenerno-Fiz Zhur, Vol [illegible], Minsk, 1959, pp 83-91.

JPRS 2973

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The Mechanism of the Action of an Oxygen Jet on the Liquid Bath, by E. M. Orgryzkin.
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BISI 3939

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An Investigation of the Heat Exchange Which Takes Place When Water and Ethyl Alcohol are Boiled in Tubes, by L. S. Sterman, et al.

RUSSIAN, pub, Inzhenerno Fiz Zhur, Vol II, No 10, 1959, pp 40-45. 90-93614

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

Heat Transfer Into a Single Pipe in the Transverse Current of a Liquid With Low Prandtl Number, by A. A. Andreyevskiy, 11 pp.

RUSSIAN, per, Inzherno Fiz Zhur, No 10, pp 46-51.
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Lykov, A. V.
INVESTIGATION OF HEAT- AND MASS TRANSFER IN BINARY GASEOUS MIXTURES. [1960] 12p. 12 refs.
Order from OTS or SLA $1.60 61-14959

Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959 [v. 2] no. 11, p. 20-28.

DESCRIPTORS: *Heat transfer, *Gases, *Mixtures, Mathematical analysis, Diffusion, Thermodynamics, Gas flow, Combustion.

T...D-T-145

(Physics--Thermodynamics, TT, v. 6, no. 1)

61-14959

1. Lykov, A. V.

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Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

Gamayunov, N. I.
NEW METHOD FOR DETERMINATION OF THE HEAT AND MASS EXCHANGE COEFFICIENTS.
[1961] 9p. 11 refs.
Order from OTS or SLA $1.10 61-14964

Trans. of Inzhenerno-Fizicheskiy Zhurnal (USSR) 1959, v. 2, no. 11, p. 35-42.

DESCRIPTORS: *Heat transfer, Moisture, Conductivity, Mathematical analysis, Temperature, Water, Liquids, Fluid flow, Determination, *Thermodynamics

A nonstationary method is presented for determining the coefficients of heat and moisture conductivity of moisture dispersion materials by means of a heat or water cylinder probe, thermister and tensiometer. Exact and approximate solutions of differential equations of heat and moisture transfer are given. By using data obtained from the approximate solutions and cor-
(Physics--Thermodynamics, TT, v. 6, no. 8) (over)

61-14964

I. Gamayunov, N. I.

19683

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The Analytical Application of Atomic Absorption Spectra, by B. V. Lvov.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

Heat Transfer in Transition Flow of Liquid Metals in Tubes, by V. M. Deryugin and O. S. Fedynskiy
14 pp.

RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 2, No 12, 1959, pp. 3-10. 9686814

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Sci - Phys

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100170024-3

Heat Transfer to Liquid Metals in Turbulent Flow When the Thermal Load is Distributed Sinusoidally Along the Length of the Pipe, by V. I. Petrovichev, L. S. Kokorev, 9 pp.

RUSSIAN, per, Inz-Fiz Zhur. Vol II, No 12, 1959, pp 20-25.

AEC Tr-4218

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